## PATENT COOPERATION TREATY

INTERNAT	TONAL SEARCE	ING AUTH	ORITY						
To: GREGORY L. BRADLEY, ESQUIRE MEDRAD, INC.					PCT				
ONE MEDRAD DRIVE INDIANOLA, PA 15051					WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
						(PCT Rule 43bis.1)			
					Date of mailing (day/month/year)	14 OCT 2005			
Applicant's or agent's file reference					FOR FURTHER	ACTION See paragraph 2 below			
IN/04-002 PC International application No. International filing date				iling date	(day/month/year)	Priority date (day/month/year)			
PCT/US05/07829			11 March 200	5 (11.03.2	005)	11 March 2004 (11.03.2004)			
International Patent Classification (IPC) or both national classification					on and IPC	****			
IPC(7): A61B 5/00 and US Cl.: 600/583									
Applicant  ACCD AD DIG									
MEDRAD, INC.									
This opinion contains indications relating to the following items:									
	Box No. I	Basis of the	opinion						
Box No. II Priority									
	Box No. III	Non-establis	shment of opinio	on with re	gard to novelty, inve	ntive step and industrial applicability			
	Box No. IV	Lack of unity of invention							
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI	Certain documents cited							
	Box No. VII	o. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application								
2. FUR	THER ACTIO	N							
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority (PEPA) except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.									
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/SA/220 to heterothe expiration of 22 months from the priority date, whichever expires later.									
For further options, see Form PCT/ISA/220.									
3. For further details, see notes to Form PCT/ISA/220.									
					tion of this opinion	Authorized officer	9		
P.O. Box 1450			10 Se	eptember 2	005 (10.09.2005)	Brian Szma March Holl	/		
Alexandria, Virginia 22313-1450  Facsimile No. (703) 305-3230  Form PCTR 8 (737 (2008) 2009)						Telephone No. 571-272-3700	1		

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

	International application No.
	PCT/US05/07829
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Box No. I Basis of this opinion						
1. With regard to the language, this opinion has been established on the basis of:						
the international application in the language in which it was filed						
a translation of the international application into, which is the language of a translation furnished for the purposes international search (Rules 12.3(a) and 23.1(b)).	of					
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li></ol>						
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
on paper						
in electronic form						
c. time of filing/furnishing						
contained in the international application as filed.						
filed together with the international application in electronic form.						
furnished subsequently to this Authority for the purposes of search.						
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been for furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4. Additional comments:						

Form PCT/ISA/237(Box No. I) (April 2005)

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORI

International application No. PCT/US05/07829

INTERNATIONAL SEARCHING AUTHORITY Box No. V Reasoned statement under Rule 43 bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Claims 1-29.32.35-41.43-56 YES Novelty (N) Claims 30,31,33,34,42 NO Inventive step (IS) Claims 1-29,32,35-41,43-56 YES Claims 30,31,33,34,42 NO Claims 1-56 YES Industrial applicability (IA) Claims NONE NO 2. Citations and explanations: Claims 30, 31, 33, 34 and 42 lack novelty under PCT Article 33(2) as being anticipated by Rizoiu et al (6,669,685 B1). Claims 1-29, 32, 35-41 and 43-56 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a penetrator positioned within the passage, the penetrator being energized in a repetitive manner to assist in penetrating tissue; a penetrator in operative connection with the catheter, the penetrator being energized in a repetitive manner to assist in penetrating tissue; the actuator adapted to cause motion of the first effector such that tearing of tissue takes place in regions where there is close proximity of tissue to the surface of the first effector, a second tubular structure positioned inside the first tubular structure, such that cut tissue passes into the second tubular structure and is protected from the effect of the rotational energy of the first tubular structure; a nonlinear penetrator comprising at a forward end thereof at least a first effector, the first effector being actuated to move; a penetrator at a forward end thereof at least a first effector, the effector being rotatable about the axis of the penetrator; a non-coring needle comprising a forward extending section comprising at least two points spaced from each other and adapted to pierce tissue; and a blunt needle comprising at least one effector that is energized to penetrate tissue.

Claims 1-56 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.